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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/277,801	03/27/1999	LARRY WESTERMAN	SLA0135	4093
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MARGER JOHNSON & MCCOLLOM PC 1030 SW MORRISON STREET			EXAMINER	
PORTLAND,			SONG, HOSUK	
			ART UNIT	PAPER NUMBER
			DATE MAILED: 09/30/2003	9

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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Application No. Applicant(s) WESTERMAN ET AL.			4			
## Deficie Action Summary Examiner	Į.	Application No.	Applicant(s)			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. If the period for reply specified above is less than thirty (30) easy, a reply within the statutory minimum of thirty (30) easy will be considered timely. If the period for reply specified above is less than thirty (30) easy, a reply within the statutory minimum of thirty (30) easy will be considered timely. If the period for reply specified above is less than thirty (30) easy, a reply with the statutory minimum of thirty (30) easy will be considered timely. If the period for reply specified above is less than the statutory period will agries (30) easy will be considered timely. If the period for reply specified above is less than the statutory period will appear with all reply (84) easy to easy seamed pattern adjustments. Sea JCTR 17304). Any reply reviewed by the Office later than there months after the mailing date of this communication, even if timely filed, may reduce any seamed pattern adjustments. Sea JCTR 173049. Status Status Responsive to communication(s) filed on @9 July 2003 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.7 is/are pending in the application. 4) Of the above claim(s) is a replication in the application is a part existence of the promote of the priority documents have been re	Office Action Summany					
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1)	THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
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Art Unit: 2131

DETAILED ACTION

1. Claims 1-7 are pending. The previous grounds of rejection based on Kawana patent is withdrawn in view of Applicant's arguments in the Amendment filed July 09 2003. However, newly discovered prior art has necessitated new grounds of rejection. The new grounds of rejection are presented below. The delay in citation of the newly discovered prior is regretted.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moriyama(US 4,680,647) in view of Walther et al.(US 5,606,648).

In claims 1,3, Moriyama discloses a method for inserting a start code into a modulation process in (col.1,lines 48-51). Moriyama disclose inserting a stop code in (col.1,lines 51-54). Moriyama does not specifically disclose subpixel modulation process. Walther's patent discloses subpixel modulation process accordance with a code, which corresponds to a print engine in (fig.1,col.2,lines 27-40 and col.10,lines 1-7). It would have been obvious to person of ordinary skill in the art at the time invention was made to use subpixel modulation method taught in Walther with modulation process disclosed in Moriyama in order to provide high resolution image thus enhancing an overall picture quality.

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Art Unit: 2131

In claim 2, Moriyama disclose code is repeated several times throughout a printed image in (col.35,lines 1-10).

In claims 4- 5, Moriyama disclose full and no modulation process in (col.33,lines 59-66).

In claims 6-7, Moriyama disclose inserting a start code modulation sequence of

11110011 and stop code modulation sequence of 0001111 in (col.16,lines 41-54)..

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hosuk Song whose telephone number is 703-305-0042. The examiner can normally be reached on Tue-Fri from 6:00 am- 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 703-305-9648.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

HSS B

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